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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/757,123	01/09/2001	Satish Athavale	01P7408US02	6586	
75	7590 04/20/2004		EXAM	EXAMINER	
F Chau & Associates 1900 Hempstead Turnpike			DEO, DUY VU NGUYEN		
Suite 501			ART UNIT	PAPER NUMBER	
East Meadow, NY 11554			1765		

DATE MAILED: 04/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summers		09/757,123	ATHAVALE ET AL.	
	Office Action Summary	Examiner	Art Unit	
		DuyVu n Deo	1765	
Period f	The MAILING DATE of this communication a or Reply	appears on the cover sheet wit	th the correspondence addres	s
THE - Extended after - If the If No If Any	MORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a in Depend for reply is specified above, the maximum statutory perion cure to reply within the set or extended period for reply will, by starting reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed / (30) days will be considered timely. THS from the mailing date of this commur ANDONED (35 U.S.C. § 133).	nication.
Status				
1)⊠	Responsive to communication(s) filed on <u>02</u>	Prebruary 2004 and 08 Marc	<u>h 2004</u> .	
2a)⊠	This action is FINAL . 2b) ☐ T	his action is non-final.		
3)□	Since this application is in condition for allow closed in accordance with the practice under			its is
Disposit	ion of Claims			
4)⊠ 5)⊠ 6)⊠ 7)□ 8)□	Claim(s) <u>1-3 and 5-31</u> is/are pending in the above claim(s) is/are withd Claim(s) <u>12,22-25,30 and 31</u> is/are allowed. Claim(s) <u>1-3, 5-11, 13-21, 26-29</u> is/are reject Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.		
Applicat	ion Papers			
9)	The specification is objected to by the Exami	iner.		
10)	The drawing(s) filed on $_$ is/are: a) \square a	• • • • • •		
	Applicant may not request that any objection to the			
11)	Replacement drawing sheet(s) including the corn The oath or declaration is objected to by the	= :		٠,
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been recau (PCT Rule 17.2(a)).	oplication No received in this National Stag	e
Attachmen	t(s)			
I) 🔲 Notic	e of References Cited (PTO-892)		ımmary (PTO-413)	
3) 🔲 Infori	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date		/Mail Date ormal Patent Application (PTO-152) 	
	-d-wed-Office			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-3, 5-11, 13-21, 26-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not describe the deep trenches have a depth of greater than 8um and a diameter of 175 nm or less.
- 3. Claims 12, 22, 23-25, 30, 31 remained allowed.

Response to Arguments

4. Applicant's arguments, see the remark, filed 2/2/04, with respect to claims 1-3, 5-11, 13-21, 26-29 have been fully considered and are persuasive. The rejection of 1-3, 5-11, 13-21, 26-29 has been withdrawn. Applicant's argument that with the ratio of 40:1, as shown by Cathey, a trench with a width of 175 nm (0.175 um) or less would have a depth of 7 um or less, is found persuasive. Therefore, applied prior art, taken either alone or in combination, doesn't provide a method that provides a deep trench having a depth of greater than 8 um and a diameter of 175 nm or less.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DuyVu n Deo whose telephone number is 571-272-1462. The examiner can normally be reached on 6:00-3:30; with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DVD 4/16/04